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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/902,277	07/09/2001	Gurtej S. Sandhu	MI22-1780	1605

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EXAMINER

SCHILLINGER, LAURA M

ART UNIT

PAPER NUMBER

2813

DATE MAILED: 04/10/2002

10

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/902,277

Applicant(s)

SANDHU ET AL.

Examiner

Laura M Schillinger

Art Unit

2813

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 07 February 2002.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 37-38; 43-50 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 37-38; 43-50 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). _____.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 37-38 and 43-50 are rejected under 35 U.S.C. 102(e) as being anticipated by Nishimura et al et al ('168).

In reference to claim 37, Nishimura et al teaches a method comprising:

Forming a gate (Fig.10 (3));

Forming a polycrystalline film over the gate (Fig.10 (5));

Forming a Fluorine containing layer proximate to the polycrystalline TFT layer (Fig.10 (10)); and

Transferring F into the polycrystalline TFT layer from the F containing layer (Fig.11 (F)).

In reference to claim 38, Nishimura et al teaches wherein the polycrystalline TFT comprises Si (Fig.27 (F)).

In reference to claim 43, Nishimura et al teaches wherein the forming a F containing layer comprises forming a sacrificial F containing layer over the TFT layer (Fig.19 (16)- see also Col.11, lines: 49-55).by CVD utilizing WF(6) and SiH(4) (Col.7, lines: 1-10).

In reference to claim 44, Nishimura et al teaches further comprising after the transferring F, removing the sacrificial layer form over the TFT layer (Fig.21 (16)).

In reference to claim 45, Nishimura et al teaches a method comprising:

Forming a gate (Fig.19 (3))

Forming a polycrystalline TFT layer over the gate (Fig.19 (5))

Forming a F containing layer over the polycrystalline TFT layer (Fig.19 (9));

Providing a buffering layer intermediate the TFT layer and the F containing layer (Fig.19 (8))and

Transferring F into the polycrystalline TFT from the F containing layer (Col.11, lines: 25-35)

In reference to claim 46, Nishimura et al teaches a method comprising:

Forming a gate (Fig.21 (3))

Forming a polycrystalline film over the gate (Fig.21 (5))

Forming a Fluorine containing layer proximate to the polycrystalline TFT layer (Fig.10 (10)); and

Transferring F into the polycrystalline TFT layer form the F containing layer (Fig.11 (F)).

In reference to claim 47, Nishimura et al teaches wherein the polycrystalline TFT comprises Si (Fig.27 (Si-H))

In reference to claim 48, Nishimura et al teaches wherein the forming a F containing layer comprises forming a sacrificial F containing layer over the TFT layer (Fig.19 (16)- see also Col.11, lines: 49-55) by CVD utilizing WF(6) and SiH(4) (Col.7, lines: 1-10).

In reference to claim 49, Nishimura et al teaches further comprising after the transferring F, removing the sacrificial layer form over the TFT (Fig.21 (16)).

In reference to claim 50, Nishimura et al teaches a method comprising:

Forming a gate (Fig.19 (3));

Forming a polycrystalline TFT layer over the gate (Fig.19 (5))

Forming a F containing layer over the polycrystalline TFT layer(Fig.19 (9));

Providing a buffering layer intermediate the TFT layer and the F containing layer (Fig.19 (8)); and

Transferring F into the polycrystalline TFT from the F containing layer (Col.11, lines: 25-35)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M Schillinger whose telephone number is (703) 308-6425. The examiner can normally be reached on M-F 7:00 -4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached at 703-306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1500.

LMS
April 4, 2002


OLIK CHAUDHURI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800